

ABSTRACT

A receiver comprises a plurality of antenna elements for receiving a data signal. Each antenna element has a plurality of Rake fingers. Each Rake finger processes a received multipath component of the received data signal of its antenna element by applying a complex weight gain to that received multipath component. A complex weight gain generator determines the complex weight gain for each Rake finger for each antenna element using an input from all the Rake fingers. A summer combines an output of each Rake finger to produce an estimate of the data signal.